

MULTIPLE CONTRAST ECHO-PLANAR IMAGING FOR CONTRAST-ENHANCED IMAGING

Abstract of the Disclosure

5 A dose of a contrast agent (44) is administered to the patient (42). A magnetic resonance is excited by an RF pulse (200) in a region of interest of the patient (42). An echo-planar imaging (EPI) readout waveform is implemented a preselected duration after the excitation to generate T_2 or T_2^* weighted data. During the preselected duration, another echo planar readout waveform is implemented to generate T_1 or proton density weighted data. The data is reconstructed (56) to generate a T_2 or T_2^* weighted image and a T_1 weighted image. The T_1 and T_2 or T_2^* weighted images are combined (62) to generate a contrast enhanced image.

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